

(19) World Intellectual Property
Organization
International Bureau



Rec'd PCT/PTO 21 DEC 2004



(43) International Publication Date
8 January 2004 (08.01.2004)

PCT

(10) International Publication Number
WO 2004/003082 A1

(51) International Patent Classification⁷: C08L 91/08,
C11C 5/00

SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:
PCT/GB2003/002796

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(22) International Filing Date: 30 June 2003 (30.06.2003)

(25) Filing Language: English

(26) Publication Language: English

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted
a patent (Rule 4.17(ii)) for the following designations AE,
AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,
CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES,
FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO
patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG,
ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE,
DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT,
RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
— of inventorship (Rule 4.17(iv)) for US only

(30) Priority Data:
0215046.4 28 June 2002 (28.06.2002) GB

Published:

— with international search report
— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: CANDLE COMPOSITION AND CANDLES MADE THEREFROM

(57) Abstract: A paraffin wax candle composition comprising a mixture of a hard paraffin wax and a soft paraffin wax the hard wax having a penetration value as measured by the Needle Penetration Test as defined in ASTM D 1321 of no more than 25 and the soft wax having a penetration value of no less than 45, the composition itself having a penetration value between 30 and 50.

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CANDLE COMPOSITION AND CANDLES
MADE THEREFROM

This invention relates to candle compositions, in
5 particular candle compositions made from paraffin wax, and
to candles made therefrom.

As is well known, in addition to their use as a means
for providing light, candles are popular for their aesthetic
appeal, both in terms of the type of light which they
10 produce and also their appearance as articles, as well as
being a means of delivering a fragrance or other air-borne
agent to an environment.

The manufacture of good quality candles is determined
by several criteria which need to be met by the composition
15 formulation from which the candle is made.

Among these criteria are the following:-

Low shrinkage: Where a candle wax is to be used to
fill a glass container the shrinkage of the composition
should of course be as low as possible in order to avoid the
20 presence of voids between the solidified wax and the glass
vessel.

Transparency of the pool when the candle is burning:
Ideally the pool of molten wax at the base of the flame
should be transparent.

25 Size of the pool: This should not be too small as this
usually indicates poor burning illustrated in extreme cases
by a phenomenon of "tunnelling".

Residue left after burning candle and particularly at
the end of life: In general the smaller the amount of
30 residue left after burning the better.

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The post burning aesthetics of a candle should also be good; that is, the residual wax should not have a burnt appearance.

Other important criteria include the melting point of the wax. This is ideally around 50EC, for example, from about 45EC to about 55EC. If the melting point is lower than this then a problem of stability can arise in warmer countries but if the melting point of the wax is higher than this, in the case where the candle contains a fragrance or other air-borne agent it is not so easily released because the higher melting waxes hold on to the fragrance too effectively. An additional consideration is that higher melting point waxes tend not to burn so well and tend to leave more residue on the glass container. Also generally, Low Melting Point waxes shrink less than higher Melting Point waxes.

The present invention relates to the concept of producing a paraffin wax composition which produces an optimum combination of all or most of the criteria mentioned above. In particular, it has been discovered that a wax composition which comprises a mixture of a relatively hard paraffin wax with a relatively soft paraffin wax enables the composition to more closely fulfil or approach an optimum combination of the criteria which are explained above.

Specifically, the present invention provides a paraffin wax candle composition comprising a mixture of a hard paraffin wax and a soft paraffin wax the hard wax having a penetration value as measured by the Needle Penetration Test as defined in ASTM D 1321 of no more than 25 and the soft wax having a penetration value of no less than 45, the composition itself having a penetration value between 30 and

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50. In a preferred embodiment a candle wax composition which is particularly suitable comprises a paraffin wax which gives a penetration test result of 16-20 in the ASTM D 1321 penetration test and/or a paraffin wax which shows a
5 penetration of 50-70 in the same test gives a candle wax composition which is particularly suitable.

In a preferred embodiment the melting point of the composition is in the range from 45°C to 55°C, most preferably 50°C.

10 Preferably the proportion of the hard wax to the soft wax is in the range from 50:50 to 10:90, and can, for example, be about 30:70.

The actual percentage by weight of the hard wax plus soft wax in the candle-making composition will depend on the
15 amounts of other additives which can typically be included in the composition.

Thus, preferably the composition contains a microcrystalline wax in the amount of preferably up to 1% by weight. The function of the microcrystalline wax is to give
20 the candle a more smooth, glossy appearance, if required; that is to give the candle a better aesthetic appearance. Microcrystalline wax can also improve fragrance retention.

Additionally, or alternatively the composition may contain polyethylene in an amount of preferably up to 1% by
25 weight. Polyethylene can give some benefit in terms of fragrance retention and aesthetic.

Additionally, or alternatively the composition may contain Vybar (Trade Mark) to help in reducing air bubbles, to inhibit mottling and to enhance fragrance and colour
30 retention. Preferably up to 0.2 % by weight is present.

The composition may comprise further components,

preferably in an amount from 1 to 20 % by weight, such as one or more compounds selected from fragrances, malodour counteractants, insecticides, pesticides, insect repellents, colorants, anti-oxidants, preservatives, anti-ingestion agents, stabilisers, insect repellents, deodorizers and masking agents.

The fragrance or other air-borne agent may preferably be present in the composition up to an amount of 10% by weight. Suitable fragrances are generally known in the art, for example one comprising fragrant material selected from one or more of the following cedarwood oil, sandalwood, bergamot, Bulgarian rose oil, patchouli, myrrh, vanilla, clove leaf oil, linalol, ethyl alcohol, tepineol, menthol, citronellal and phenyl ethyl alcohol. The fragrance normally comprises a carrier solvent such as diethylphthalate, carbitol, dipropyleneglycol, or dipropylglycol.

Suitable malodour counteractants are well known, for example is one or more aroma and/or non-aroma chemicals which are known to have an action in reducing the perception of the intensity of malodours for example unsaturated esters, ketones, aldehydes, and/or fragrant materials such as citronellal or cedarwood oil (which is known to counteract the perception of tobacco malodour). Preferably 0.1 to 10 % by weight are present.

Suitable insecticides, pesticides and insect repellents are well known for use in the invention for example a pyrethroid, niotinoid, rotenoid, tetramethrin, bioallerthrin, allethrin, phenthrin, dinitrophenol, organothiocyamate, benzene hexachloride, citronellal, a polychlorinated cyclic hydrocarbon (for example heptachlor, aldrin or telodrin) or an organophosphorous compound for

example tetraethyl pyrophosphate). Preferably 1 to 10 % by weight is present.

Also, the present invention is particularly useful in the manufacture of coloured or tinted candles and to this end a dye, pigment or other colouring material which is soluble in wax may be included in the composition up to an amount of preferably 0.5% by weight. Suitable dyes and pigments are generally known in the art, for example pigment ivory, pigment cobrizo, Iragon Green, Iragon Violet, Sandoplast Blue 2B and Fat Red 5B02. The dyes can be either in the form of solid cakes or chips, a powder or a liquid.

A suitable anti-oxidant is, for example, tocopherol, ascorbyl palmitate, butylated toluene, ascorbic acid, tert-butyl hydroquinone, beta carotene, butylated hydroxy toluene or a gallate. Preferably 0.1 to 2 % by weight of an antioxidant may be present in the composition.

Suitable preservatives are quaternary alkyl ammonium compounds or imidazolinium derivatives. Preferably 0.1 to 2 % by weight of a preservative may be present in the composition.

The candle product can be in any suitable form known in the art. It may take the form of a taper candle, a votive candle, a tea light or a column candle or may be contained in a jar or other container. Such candles preferably contain a wick, but could also comprise a wickless taper. The wick, if present may be any conventional consumable wick material, such as cotton, cellulose, nylon, or paper. The wick may preferably be located in the centre of the candle, or may be off centre as desired. The presence of two or more wicks is also within the scope of the present invention. Non consumable wicks of an appropriate design, such as

fibreglass, could conceivably be used, but in the past have been found to present problems of poor burn characteristics and excessively large flame when employed in conventional candles.

5 In a preferred embodiment the candle comprises a container in which the candle composition in a liquid state has been poured and set surrounding a candle wick.

 The preparation of the paraffin wax blended composition is quite conventional and the skilled person
10 needs no specific guidance in this respect and the same applies to the manufacturing procedures which can be used for making candles from candle wax compositions. A candle is formed by first coating the wick to be used in the candle with a "core composition". The "core composition" can
15 comprise any suitable paraffin wax. In a preferred embodiment the "core composition" may contain a pigment, dye or other colouring material. In the present invention the "core composition" preferably comprises Paraffin 5203 in an amount of at least 90% by weight of the "core composition",
20 more preferably at least 99% by weight of the "core composition" and most preferably 99.9 % by weight of the "core composition". The candle composition in a liquid state is then poured and set surrounding the wick coated with the core composition.

25 An example of a hard paraffin wax which is suitable for use in the present invention is one which is designated paraffin wax 5203 (Tradename) and whose characteristics are set out below.

 An example of a soft paraffin wax which can be used in
30 this invention is one which is designated paraffin wax 6214 (Tradename) and whose characteristics are also set out below.

Another soft paraffin wax which may be used in the present invention is one which is designated paraffin wax 6213 (Tradename) and whose characteristics are set out in the Table below. In a preferred embodiment paraffin wax 6214 is
5 used.

These waxes have various synonyms to describe them and these are also set out below under the CAS numbers which are appropriate to them.

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TABLE

Composition	Paraffin 5203 Solid saturated Hydrocarbons C_nH_{2n+2}	Paraffin 6214 Solid saturated Hydrocarbons C_nH_{2n+2}	Paraffin 6213 Solid saturated Hydrocarbons + Triglyceride < 25%
CAS No.	64742-51-4, 8002-74-2	64742-51-4	Paraffin: 64742-51-4, 8002-74-2 Triglyceride: 84540-04-5
EINECS No.	266-154-5, 232-315-6	265-154-5	Paraffin: 265-154-5, 232-315-6 Triglyceride: 283-093-2
Physical Description	At 20EC, waxy solid	At 20EC, waxy solid	At 20EC, waxy solid
Colour	White	Whitish	White / Whitish
Odour	Practically odourless	Practically odourless	From neutral to slightly fatty like
Congeaing point	52-54EC	48-52EC	42-46°C
Penetration test at 25EC (dmm)	16-20	50-70	70-100
Flash point	>150EC	>150EC	>150°C
Viscosity (100EC)	2.5-10 mm ² /s	4.0-6.0 mm ² /s	4.0-5.0 mm ² /s
CAS No. 64742-51-4/Synonyms...Paraffin waxes, petroleum, hydrotreated			
CAS No. 8002-74-2/Synonyms ...Paraffin Wax; Paraffin waxes: Paraffin wax (petroleum); Poly(methylene)wax; Wax extract; Paraffin wax fume; Fischer- tropsch wax; Cream E45; Derma-Oil; Duratears; Granugen; Parachoc; Replens; Paraffin Wax, granular;			

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It should be noted that all three paraffins appear to be fairly similar but differ significantly in some of their physical properties, in particular the penetration values and also their congealing points, the latter it will be seen being appropriate to provide a melting point of the overall composition around 50EC as explained hereinbefore.

As a specific example of a candle composition in accord with the present invention the proportion of ingredients are set out below.

Candle Composition

% by weight
per mix

Core Composition

Paraffin 5203	99.898
Pigment Ivory 15-1641	0.1
Pigment Cobrizo 29-627	0.002

Wax Composition

Paraffin 6214	65.64
Paraffin 5203	28.20
Fir Vanilla Light 175297E	5.41
Microcrystalline Wax 1800	0.65
Pigment Ivory 15-1641	0.09
Pigment Cobrizo 29-627	0.01

The proportion by weight of the Core composition to the wax composition is approximately 26:74.

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The invention will be illustrated by the following Example:

Method of Manufacture of the Candle

5 1) Core Production and wicking

The appropriate amount of paraffin 5203 is weighed into a mixing tank. The appropriate amounts of the pigment ivory and pigment cobrizo dyes are then added to the same tank.

- 10 The tank temperature is maintained at 60 to 65EC whilst the contents of the tank are stirred until the dye has melted and completely dispersed.

The resulting coloured liquid wax is then fed to a spraying
15 drum feed tank. The powder is sprayed and pumped via pipes to a powder press.

The appropriate wick is loaded into a wicking machine adjacent to the powder press. The specified length of wick
20 is automatically inserted on line through the core and a metal sustainer is secured to the end.

2) Wax Blend

- 25 The appropriate amounts of Paraffin 5203, Paraffin 6214 and microcrystalline wax are transferred to a mixing vessel. The vessel temperature is maintained at approximately 65EC whilst the mixture is stirred until all components have been fully melted and dispersed. ✓

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The appropriate amounts of Pigment Ivory, Pigment Cobrizo and Fir Vanilla Light are then added to the mixing vessel. The vessel temperature is maintained at a temperature of from 60 to 65EC until the dye has completely melted and has
5 been dispersed in the mixture.

3) Filling Line

The wick assembly/coloured core is transferred into
10 a glass jar. The glass jar is heated to 55 to 60EC by passing the glass jar through a glass heater.

The glasses are then filled with the wax blend via calibrated filling heads.
15

The filled glasses are then passed through a cooling tunnel and then an infra red "Flash" heater, which removes air bubbles and smoothes the wax surface.

20 The glasses are then passed through a second cooling unit.

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CLAIMS

1. A paraffin wax candle composition comprising a mixture of a hard paraffin wax and a soft paraffin wax the hard wax
5 having a penetration value as measured by the Needle Penetration Test as defined in ASTM D 1321 of no more than 25 and the soft wax having a penetration value of no less than 45, the composition itself having a penetration value between 30 and 50.
- 10 2. A composition as claimed in claim 1 wherein the hard wax has a penetration value of 16-20.
3. A composition as claimed in claim 1 or claim 2 wherein
15 the soft wax has a penetration value of 50-70.
4. A composition as claimed in claim 1 wherein the hard wax has a penetration value of 16-20 and the soft wax has a penetration value of 50-70.
- 20 5. A composition as claimed in any one of the preceding claims wherein the proportion by weight of the soft wax to the hard wax is in the range 50:50 to 90:10.
- 25 6. A composition as claimed in claim 5 wherein the proportion by weight of the soft wax to the hard wax is about 70:30.
7. A composition as claimed in any one of the preceding
30 claims wherein the melting point of the composition is in the range from 45EC to 55EC.

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8. A composition as claimed in claim 7 wherein the melting point of the composition is about 50EC.
9. A composition as claimed in any one of the preceding
5 claims which contains a microcrystalline wax in an amount up to 1% by weight.
10. A composition as claimed is in any one of the preceding
10 claims which contains a polyethylene in an amount up to 1% by weight.
11. A composition as claimed in any one of the preceding
claims which contains a colouring material in an amount up to 0.5% by weight.
- 15 12. A composition as claimed in any one of the preceding
claims which contains a fragrance and/or other air-borne agent or agents in an amount up to 10% by weight.
- 20 13. A candle comprising a composition as claimed in any one of the preceding claims.
14. A candle as claimed in claim 13 comprising a container in which the candle composition in a liquid state has been
25 poured and set surrounding a candle wick.

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INTERNATIONAL SEARCH REPORT

International Application No

P 03/02796

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C08L91/08 C11C5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08L C11C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	EP 0 930 355 A (CERERIA AMOS SGARBI SPA) 21 July 1999 (1999-07-21) page 3, line 51 - line 54 claims 1-12	7-9,11, 12
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

29 September 2003

Date of mailing of the international search report

31 10. 2003

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 03/02796

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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